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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/619,585	07/16/2003	Hisatake Sato	OKI.290C 7436		
7590 01/23/2004			EXAMINER		
VOLENTINE FRANCOS, PLLC			LAXTON, GARY L		
Suite 150 12200 Sunrise V	Vally Drive	ART UNIT	PAPER NUMBER		
Reston, VA 2	-		2838		
			DATE MAILED: 01/23/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

					11/				
Office Action Summary		Application	on No.	Applicant(s)					
		10/619,58	35	SATO, HISATAKE					
		Examiner		Art Unit					
		Gary L. La		2838					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address									
Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status									
1)☐ Responsive t	o communication(s) filed o	on							
2a) This action is	FINAL. 2b)[⊠ This action is no	on-final.						
3) Since this ap closed in acc	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
4) Claim(s) <u>17-2</u>	4)⊠ Claim(s) <u>17-23</u> is/are pending in the application.								
4a) Of the abo	4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s)	5) Claim(s) is/are allowed.								
	Claim(s) <u>17-21</u> is/are rejected.								
,	7) Claim(s) <u>22 and 23</u> is/are objected to.								
8) Claim(s) are subject to restriction and/or election requirement.									
Application Papers									
9) The specification is objected to by the Examiner.									
10) ☑ The drawing(s) filed on 16 July 2003 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority under 35 U.S.C. §§ 119 and 120 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).									
a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No. 10/017,414. 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) ☐ The translation of the foreign language provisional application has been received. 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.									
reference was included in the first sentence of the specification of in an Application Data Office. 57 Office 1.70.									
Attachment(s)									
1) Notice of References 2) Notice of Draftsperso	Cited (PTO-892) n's Patent Drawing Review (PTC e Statement(s) (PTO-1449) Papo	D-948) er No(s) <u>20040114</u> .	4) Interview Summary 5) Notice of Informal 6 6) Other:						

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DETAILED ACTION

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 17 and 19-21 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-3 and 5 of U.S. Patent No. 6,605,932. Although the conflicting claims are not identical, they are not patentably distinct from each other because claim 1 of U.S. Patent No. 6,605,932 discloses the claim limitations of claim 17 of the instant invention; claim 2 of U.S. Patent No. 6,605,932 discloses the claim limitations of claim 19 of the instant invention; claim 3 of U.S. Patent No. 6,605,932 discloses the claim limitations of claim 20 of the instant invention; and, claim 5 of U.S. Patent No. 6,605,932 discloses the claim limitations of claim 21 of the instant invention.

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3. Claim 18 is rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent No. 6,605,932 in view of U.S. Patent No. 6,459,330. Claim 1 of U.S. Patent No. 6,605,932 of discloses the claim limitations of claim 17 stated supra except for the boost voltage generated by the voltage booster circuit is used as a power supply voltage for a liquid crystal display.

Yasue teaches a DC-DC voltage boost power supply circuit for driving a liquid crystal device in order to provide the high voltage supply necessary for driving liquid crystal display devices (col. 1 lines 12-15 and lines 18-20).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use the boost voltage generated by the voltage booster circuit as a power supply voltage for a liquid crystal display since Yasue teaches that liquid crystal display device require a high voltage supply voltage in order to operate.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US 6,107,864 Fukushima et al discloses a Charge pump circuit.

Allowable Subject Matter

5. Claims 22 and 23 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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6. The following is a statement of reasons for the indication of allowable subject

matter:

Concerning claims 22 and 23; prior art fails to disclose or suggest, inter alia, a semiconductor

device having a voltage supply circuit which outputs first and second complementary voltage

levels; and a plurality of fourth terminals each of which receiving one of the first and second

voltages, wherein each of a plurality of capacitors are respectively connected between one of the

first terminals and one of the fourth terminals.

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Gary L. Laxton whose telephone number is (703) 305-

7039. The examiner can normally be reached on Monday thru Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael Sherry can be reached on (703)308-1680. The fax phone number

for the organization where this application or proceeding is assigned is (703)-872-9306.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

0956.

Gary L. Laxton

Patent Examiner

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